

Material Safety Data Sheet

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Section : Coating Business Promotion Department
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【 Product Name 】 Silica Aerogel SP- 12

【 Characteristics 】

- Chemical nature : silicon dioxide (SiO₂ : 90%)
- Form : block
- Color : transparent
- Odor : none

【 Physical data 】

- | | | | |
|------------------------------------|---|-----------|-------------------|
| • Density | : | 0.04 | g/cm ³ |
| • Boiling point | : | — | |
| • Vapor pressure | : | — | |
| • Viscosity | : | — | |
| • Solubility in water | : | insoluble | |
| • Flash point | : | — | |
| • Ignition point | : | — | |
| • Explosion limits | : | — | |
| • Thermal decomposition | : | — | |
| • Hazardous decomposition products | : | none | |
| • Hazardous reactions | : | — | |

【 Measures in case of accidents and fires 】

- First aid : Wash affected skin with soap and water .
Wash affected eyes thoroughly under running water with eyelid open .
- Extinguish media : Water spray, foam, dry powder
- After crush and spillage : Take up with a dust-binding medium and dispose of .

【 Protective measures, storage and handling 】

- * in case of crushed pieces or powder
- Technical protective :
When handling larger quantities without extraction plant,
breathing and eye protection required
- Personal protective equipment :
Avoid inhalation of dust

【 Information of toxicity 】

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|-----------------------|-----------------------------|---------------------|
| • Acute oral toxicity | : lethal dose > 2,000 mg/kg | (tested in mice) |
| • Skin irritation | : non-irritant | (tested on rabbits) |
| • Eye irritation | : non-irritant | (tested on rabbits) |

* The product is confirmed as non hazardous substance by the tests
based on the OECD Guideline for Testing Chemicals (1987).

【 Information on ecological effects 】

- Eliminability : Because of its poor solubility in water, the product is virtually separated
from water mechanically in biological effluent treatment plants .

【 Further information 】
